Manitoba Monthly Communicable Disease Report
Reported up to January 31, 2010

Highlights:

1. **Antimicrobial Resistant Organisms**
   Together Methicillin-resistant *Staphylococcus aureus* (MRSA) and *Clostridium difficile* (*C. difficile*) accounted for 71% of all non-STI/HIV related communicable diseases reported to Manitoba Health during January 2010.

2. **Sexually Transmitted Infections (STI) & Blood-Borne Pathogens (BBP)**
   There were 563 reported cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in January 2010:
   - 487 reported cases of chlamydia (Ct) only
   - 40 reported cases of gonorrhoea (GC) only
   - 29 reported co-infections of Ct and GC and
   - 7 reported cases of syphilis

   Chlamydia has the highest incidence of reported STI. Females between the ages of 15 and 24 years comprised 45% of all reported chlamydia cases in the province.

   In January 2010, there were no cases of Hepatitis B virus (HBV), 19 cases of Hepatitis C virus (HCV) and 9 cases of HIV newly reported in Manitoba.

3. **Other Communicable Diseases**
   The number of reported cases in January 2010 was within or below the statistically expected range for these reported communicable diseases with the exception of the following diseases:

   - Streptococcus Pneumoniae, Other Sterile Site – 2 positive lab-confirmed cases reported; less than 2 expected in an average month.
   - Toxoplasmosis – 1 positive lab-confirmed case reported; less than 1 expected in an average month.

   The expected number of cases and range is statistically based on the number of reported cases during December ('04-'08), January ('05-'09), and February ('05-'09).

Explanatory Notes:

General:
Each monthly communicable disease report includes the number of cases of notifiable communicable diseases reported by lab or health provider during each individual month. Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date as symptom onset date is frequently not recorded. Some discrepancy of numbers may be based on reporting delays.

The observed numbers of cases are compared to the statistically expected range for each reportable communicable disease. This involves comparing the current month's case counts to the average case counts for the same month, one month subsequent and one month prior for the previous five years. These same months over the five years are used to determine the expected range of cases using the statistical calculation of standard deviation. Using this specific monthly pattern allows for adjustment within the statistics for both seasonality and cyclical disease patterns.

The year-to-date case counts are based on the calendar year.

The disease data reported in the monthly report has not been analyzed for severity or associated deaths at this time.

Disease specific information:
Methicillin-resistant *Staphylococcus aureus* (MRSA) positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals who have no symptoms and are mostly diagnosed during admission screening activities at facilities. If facilities increase their screening activities, it would usually result in a rise in colonized MRSA cases.

A new case of Hepatitis C Virus (HCV) infection is defined as a first positive test for an identifiable individual.

A new case of Human Immunodeficiency Virus (HIV) infection is defined as a positive test with a unique code that has not been previously linked to a positive test result in Manitoba. Positive HIV tests included in this month's statistics include both nominal and non-nominal testing results.

SUMMARY OF COMMUNICABLE DISEASE FOR JANUARY 2010

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	Disease Name	2009	2010	Expected*	Ex. Range**	2009	2010
006.9	AMEBIASIS	1	3	3	0-6	1	3
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-2		
005.8	B. CEREUS			0	0-0		
320.1	BAC. MENINGITIS - PNEUM	1		0	0-1	1	
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	10	7		***	10	7
116.0	BLASTOMYCOSIS	1			***	1	
005.1	BOTULISM				***		
023	BRUCELLOSIS		1	0	0-1		1
005.2	C. PERFRINGENS			0	0-1		
008.43	CAMPYLOBACTER	19	15	14	7-21	19	15
558.2	CLOSTRIDIUM DIFFICILE	80	74		***	80	74
046.1	CREUTZFELD-JACOB DISEASE	1			***	1	
007.8	CRYPTOSPORIDIOSIS	3		2	0-5	3	
061.0	DENGUE FEVER			0	0-1		
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS			0	0-1		
032	DIPHTHERIA CASES			0	0-1		
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1		
008.0	E. COLI-VEROTOXIGENIC	4	4	3	0-7	4	4
054.3	ENCEPHALITIS			0	0-1		
005.9	FOOD POISONING OTHER			0	0-1		
007.1	GIARDIA LAMBLIA	4	5	8	2-14	4	5
320.0	H.INFLUENZAE (CSF)			0	0-1		
041.5	H.INFLUENZAE (OTHER STERILE)			0	0-1		
041.59	HAEM. INFLUENZAE (non-B)	1			***	1	
480.8	HANTA VIRUS			0	0-0		
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		
070.1	HEPATITIS A			1	0-3		
070.3	HEPATITIS B			0	0-1		
070.51	HEPATITIS C	32	19	28	16-40	32	19
487.1A	INFLUENZA A (NON-pH1N1)****	1			***	1	
487.1B	INFLUENZA B	1			***	1	
482.83	LEGIONELLA			0	0-1		
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES			0	0-1		
88.81	LYME DISEASE			0	0-1		
084	MALARIA	1	1	1	0-3	1	1
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1		
036.82	MENINGOCOCCAL ARTHROPATHY		1		***		1
036.2	MENINGOCOCCEMIA BLOOD			0	0-1		
B95.6	MRSA	209	227	144	51-237	209	227
072.9	MUMPS	1		0	0-1	1	
036.89	N.MENINGITIDIS OTHER	1		0	0-1	1	
728.86	NECROTIZING FASCIITIS	2		1	0-4	2	
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS	1		3	0-10	1	
038.2	PNEUM. SEPTICEMIA	13	14	8	2-14	13	14
073.9	PSITTACOSIS			0	0-0		

* Mean of 15 month totals from previous, comparable, and subsequent months for the past 5 years.

** Mean +/- 2 standard deviations of the mean.

*** Data collected for less than 5 years.

**** Excludes Influenza A Pandemic H1N1 (pH1N1). There were 2 cases of pH1N1 in January 2010.

2010-03-17

SUMMARY OF COMMUNICABLE DISEASE FOR JANUARY 2010

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	Disease Name	2009	2010	Expected*	Ex. Range**	2009	2010
083.0	Q FEVER			0	0-1		
056.9	RUBELLA			0	0-0		
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER		2	0	0-1		2
003.0	SALMONELLA	22	23	16	3-29	22	23
120	SCHISTOSOMIASIS			0	0-1		
004	SHIGELLOSIS	4	2	2	0-5	4	2
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***		
481.9	STREP PNEUMONIA - PR			0	0-0		
041.1	STREP PYOGENES - OTHER STERILE	9	9		***	9	9
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-1		
127.2	STRONGYLOIDES	2	3	1	0-5	2	3
037	TETANUS			0	0-0		
130.9	TOXOPLASMOSIS		1	0	0-0		1
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-0		
013	TUBERCULOSIS - NON-RESP.	2	2	2	0-4	2	2
010	TUBERCULOSIS - PRIM.	1		1	0-3	1	
011	TUBERCULOSIS - RESP	2	3	7	1-13	2	3
021.9	TULAREMIA			0	0-0		
002.0	TYPHOID	1		0	0-1	1	
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	6	7		***	6	7
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
066.41	WNV NEUROLOGICAL SYNDROMES				***		
008.44	YERSINIA ENTEROCOLITICA			1	0-3		
		436	**423**			**436**	**423**

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR JANUARY 2010

		<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	Age/Gend	
006.9	AMEBIASIS								1					2															3
038.0	BETA STREP SEPTICEMIA	1												1								1		1		1	1	1	7
023	BRUCELLOSIS													1															1
008.43	CAMPYLOBACTER	1	1					1	1	1		1		1	1		2	1	1	1	2								15
558.2	CLOSTRIDIUM DIFFICILE					1				1					1	1	2	2		3	4	10	4	6	12	18	9		74
008.0	E. COLI 0157												2			1		1											4
007.1	GIARDIA LAMBLIA				1			1						1			2												5
070.51	HEPATITIS C											1		2	2	1	5		2		4		1					1	19
084	MALARIA								1																				1
036.82	MENINGOCOCCAL ARTHROPATHY																1												1
B95.6	MRSA	4	9	13	7	9	2	7	13	10	4	5	8	6	14	6	16	11	10	16	15	5	5	5	14	8	5		227
038.2	PNEUM. SEPTICEMIA				1								1			2			2	2	2	1	1		2				14
003.0	SALMONELLA	1			1		1		1		1	1	1			3		4	1	2	1	2		1		2			23
004	SHIGELLOSIS				1									1															2
041.1	STREP PYOGENES - OTHER ST															1	2		2				3		1				9
041.2	STREP.PNEUM.OTHER																									2			2
127.2	STRONGYLOIDIASIS				1				1									1											3
130.9	TOXOPLASMOSIS						1																						1
013	TUBERCULOSIS - NON-RESP.								1										1										2
011	TUBERCULOSIS - RESP																		3										3
B96.8	VANCOMYCIN RES. ENTER.											1			1						1		1		1	1	1		7
		7	10	13	12	10	4	9	19	12	5	9	12	15	19	15	30	20	22	25	28	20	14	14	29	32	16		**423**

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR JANUARY 2010

ICD9	Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS	3																					3
038.0	BETA STREP SEPTICEMIA	5											1					1					7
023	BRUCELLOSIS	1																					1
008.43	CAMPYLOBACTER	10	1				1				2							1					15
558.2	CLOSTRIDIUM DIFFICILE	46	5		4		4		6		2	1	3				1	2					74
008.0	E. COLI 0157	3					1																4
007.1	GIARDIA LAMBLIA	3									1		1										5
070.51	HEPATITIS C	8	1				1	1	2		2				2		1		1				19
084	MALARIA	1																					1
036.82	MENINGOCOCCAL ARTHROPATHY	1																					1
B95.6	MRSA	80	3	5	1		1	4	5	1	2	3	4	4	2	5	10	91	6				227
038.2	PNEUM. SEPTICEMIA	8					2											4					14
003.0	SALMONELLA	12	2		1				1		3		1	1					2				23
004	SHIGELLOSIS	2																					2
041.1	STREP PYOGENES - OTHER ST	5								1			1	1		1							9
041.2	STREP.PNEUM.OTHER	1									1												2
127.2	STRONGYLOIDIASIS	3																					3
130.9	TOXOPLASMOSIS																	1					1
013	TUBERCULOSIS - NON-RESP.																	1	1				2
011	TUBERCULOSIS - RESP			1													1	1					3
B96.8	VANCOMYCIN RES. ENTER.	6															1						7
		198	12	6	6		10	5	14	2	13	4	11	6	4	6	14	102	10				423

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction OOP=Out of Province

STD Infection Summary Report - January 2010

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	2009	2010	2009	2010
All Chlamydia Infections	644	516	644	516
All Gonorrhea Infections (including PRNG)	126	69	126	69
All Syphilis Infections	2	7	2	7
Gonorrhea & Chlamydia Co-infections	57	29	57	29
HIV	14	9	14	9

Total Number of STD Cases by Age and Gender - January 2010

	<1		1-4		5-9		10-14		15-19		20-24		25-29		30-39		40-49		50-59		60-69		70-79		80+		Missing	
Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gender	TOTAL
Chlamydia Only Cases		1					5	1	111	38	110	57	41	41	30	30	10	4	2	5		1						487
Gonorrhea Only Cases									3	5	4	5	7	3	5	3		3		2								40
Syphilis Only Cases							1	2	1				1							1	1							7
GC and CT Cases					1				9	3	6	4	1	2		3												29
		1			1		6	3	124	46	120	66	50	46	35	36	10	7	2	8	1	1						563
HIV												1	1	1	1	1	1	3										9

Regional STD Distribution - January 2010

Disease/Infection	Winnipeg	Brandon	N. Eastman		S. Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**			*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
All Chlamydia Infections	268	24	15	7		8	9	14	1	21		14	2	4	6	30	64	18	1	8	2	516
All Gonorrhea Infections	29		6	2		1	1		2	2					3	1	15	4	1	1	1	69
All Syphilis Infections	6	1																				7
GC and CT Infections	11		2	1		1			1	1					2	1	7	2				29

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction OOP=Out of Province